Lipids and Lipid Metabolism

Vol. 1210, 1994

Cumulative Contents

Information for Contributors *vii*

Regular Papers

Phospholipid asymmetry of goat sperm plasma membrane during epididymal maturation
A.P.S. Rana, S. Misra, G.C. Majumder and A. Ghosh (India) 1

Dietary lipids induce Phase 2 enzymes in rat small intestine
A.J. Dannenberg, E.K. Yang and D. Aharon (USA) 8

Dietary palmitic acid raises plasma LDL cholesterol relative to oleic acid only at a high intake of cholesterol
P. Khosla and K.C. Hayes (USA) 13

Circannual variation in the fatty acid composition of high-density lipoprotein phospholipids during acclimatization in trout
C. Wallaert and P.J. Babin (France) 23

Inhibition of fatty acid Δ^6- and Δ^5-desaturation by cyclopropene fatty acids in rat liver microsomes
J. Cao, J.-P. Blond and J. Bézard (France) 27

The glycolipid of *Halobacterium trapanicum*
A. Trincone, E. Trivellone, B. Nicolaus, L. Lama, E. Pagnotta, W.D. Grant and A. Gambacorta (Italy, UK) 35

Human apolipoprotein A-IV gene expression is modulated by members of the nuclear hormone receptor superfamily
A. Ochoa, S. Bovard-Houppermans and M.M. Zakin (France) 41

Phospholipase D and exocytosis of the ram sperm acrosome
E.R.S. Roldan and E.N. Dawes (UK) 48

Changes of $n-3$ and $n-6$ fatty acids in plasma and circulating cells of normal subjects, after prolonged administration of 20:5 (EPA) and 22:6 (DHA) ethyl esters and prolonged washout
F. Marangoni, M.T. Angeli, S. Colli, S. Eligini, E. Tremoli, C.R. Sirtori and C. Galli (Italy) 55

Endocytosed LDL and β-VLDL follow different intracellular pathways in rat liver
O. Gudmundsen, M.S. Nenseter and T. Berg (Norway) 63

Bile acid synthesis in hamster hepatocytes in primary culture: sources of cholesterol and comparison with other species
V.-Q. Hoang, K.M. Botham, G.M. Benson, E.E. Eldredge, B. Jackson, N. Pearce and K.E. Suckling (UK) 73

Effects of metal chelating agents on the oxidation of lipids induced by copper and iron
Y. Yoshida, S. Furuta and E. Niki (Japan) 81

Purified dietary $n-3$ polyunsaturated fatty acids alter diacylglycerol mass and molecular species composition in concanavalin A-stimulated murine splenocytes
K.H. Fowler, D.N. McMurray, Y.-Y. Fan, H.M. Aukema and R.S. Chapkin (USA) 89

Sphingosine inhibits sphingomyelinase-induced cholesteryl ester formation in cultured fibroblasts
A.-S. Härmälä, M.I. Pörn and J.P. Slotte (Finland) 97

Attenuation of diacylglycerol signal in the primordial human placenta: role of phosphatidylcholine formation
M. Tóth (Hungary) 105

Lipoprotein lipases, lipoprotein density gradient profile and LDL receptor activity in miniature pigs fed fish oil and corn oil
M.W. Huff, D.E. Telford, B.W. Edmonds, C.G. McDonald and A.J. Evans (Canada) 113

Review

Molecular and biochemical analyses of fatty acid transport, metabolism, and gene regulation in *Escherichia coli*
P.N. Black and C.C. DiRusso (USA) 123

Regular Papers

Acyl transfer reactions associated with *cis* Golgi apparatus of rat liver
J.B. Lawrence, P. Moreau, C. Cassagne and D.J. Morré (USA, France) 146

High-sensitive chemiluminescent assay for cholesterol
M.-C. Chamoin, M. Charbonnier, H. Lafont and J.-P. Ternaux (France) 151

Digestive lipases: inactivation by phosphonates
F. Marguet, C. Cudrey, R. Verger and G. Buono (France) 157

Developmental regulation of re-uptake of phosphatidylcholine by type II alveolar epithelium
M.J. Kresch, L.A. Cipriani, H. Lu and C. Christian (USA) 167

Structural elucidation of new phenolic glycolipids from *Mycobacterium tuberculosis*
M. Watanabe, Y. Yamada, K. Iguchi and D.E. Minnikin (Japan, UK) 174

Regulation of cholesterol uptake in the rat intestinal cell line
I.G. Safonova, D.D. Sviridov, J.-L. Nano, P. Rampal and V.S. Repin (Russia, France) 181

Modulation by dietary oils and clofibric acid of arachidonic acid content in phosphatidylcholine in liver and kidney of rat: effects on prostaglandin formation in kidney
Y. Kawashima, H. Mizuguchi and H. Kozuka (Japan) 187

Ethanol inhibits zymosan-stimulated eicosanoid production in mouse peritoneal macrophages
J. Balsinde, B. Fernández and J.A. Solís-Herruzo (Spain) 195

Platelet-aggregating effects of platelet-activating factor-like phospholipids formed by oxidation of phosphatidylcholines containing an *sn*-2-polyunsaturated fatty acyl group
T. Tanaka, M. Iimori, H. Tsukatani and A. Tokumura (Japan) 202

Comparison of 1-*O*-alkyl-, 1-*O*-alk-1'-enyl-, and 1-*O*-acyl-2-acetyl-*sn*-glycero-3-phosphoethanolamines and -3-phosphocholines as agonists of the platelet-activating factor family
J.T. O'Flaherty, T. Tessner, D. Greene, J.R. Redman and R.L. Wykle (USA) 209

Oxidation and keto reduction of 12-hydroxy-5,8,-10,14-eicosatetraenoic acids in bovine corneal epithelial microsomes
S. Yamamoto, M. Nishimura, M.S. Conners, R.A. Stoltz, J.R. Falck, K. Chauhan and M. Laniado-Schwartzman (USA) 217

Follicular fluid lipoproteins in the mare: evaluation of HDL transfer from plasma to follicular fluid
D. Le Goff (France) 226

1 Acyl-2 acetyl-*sn*-glycero-3 phosphocholine decreases the susceptibility of low-density lipoprotein to oxidative modification by copper ions, monocytes or endothelial cells
C. Maziere, M. Djavahery-Mergny, M. Auclair and J.-C. Maziere (France) 233

Digestion of triacylglycerols containing long-chain polyenoic fatty acids in vitro by colipase-dependent pancreatic lipase and human milk bile salt-stimulated lipase
Q. Chen, L. Bläckberg, Å. Nilsson, B. Sternby and O. Hernell (Sweden) 239

Rapid Report

Evidence that the F_2-isoprostane, 8-epi-prostaglandin $F_{2\alpha}$, is formed in vivo
J.D. Morrow, T.A. Minton, K.F. Badr and L.J. Roberts II (USA) 244

Short Sequence-Paper

Hormone-sensitive lipase is closely related to several bacterial proteins, and distantly related to acetylcholinesterase and lipoprotein lipase: identification of a superfamily of esterases and lipases
H. Hemilä, T.T. Koivula and I. Palva (Finland) 249

Review

Interaction of bile acids and cholesterol with non-systemic agents having hypocholesterolemic properties
E.R. Stedronsky (USA) 255

Regular Papers

Arachidonate 15-lipoxygenase in human corneal epithelium and 12- and 15-lipoxygenases in bovine corneal epithelium: comparison with other bovine 12-lipoxygenases
M. Liminga, L. Hörnsten, H.W. Sprecher and E.H. Oliw (Sweden, USA) 288

On the reaction specificity of the lipoxygenase from tomato fruits
D. Regdel, H. Kühn and T. Schewe (Germany) 297

Surfactant proteins A (SP-A) and D (SP-D): levels in human amniotic fluid and localization in the fetal membranes
K. Miyamura, R. Malhotra, H.-J. Hoppe, K.B.M. Reid, P.J.R. Phizackerley, P. Macpherson and A. López Bernal (UK) 303

Site-directed mutagenesis studies on the iron-binding domain and the determinant for the substrate oxygenation site of porcine leukocyte arachidonate 12-lipoxygenase
H. Suzuki, K. Kishimoto, T. Yoshimoto, S. Yamamoto, F. Kanai, Y. Ebina, A. Miyatake and T. Tanabe (Japan) 308

Purification and properties of the squalene-hopene cyclase from *Rhodopseudomonas palustris*, a purple non-sulfur bacterium producing hopanoids and tetrahymanol
G. Kleemann, R. Kellner and K. Poralla (Germany) 317

Ketoconazole and 25-hydroxycholesterol produce reciprocal changes in the rate of transcription of the human LDL receptor gene
J.L. Ellsworth, A.J. Carlstrom and J. Deikman (USA) 321

Reduced hepatic release of apoprotein B after enteral nutrition in rats
H. Yamashita, S. Saheki, M. Iwai, N. Kobayashi and T. Shimazu (Japan) 329

Regulation of CTP : phosphocholine cytidylyltransferase in HepG2 cells: effect of choline depletion on phosphorylation, translocation and phosphatidylcholine levels
P.A. Weinhold, L. Charles and D.A. Feldman (USA) 335

Gestational age dependence of 11β-hydroxysteroid dehydrogenase and its relationship to the enzymes of phosphatidylcholine synthesis in lung and liver of fetal rat
S. Hundertmark, V. Ragosch, B. Schein, H. Bühler, U. Lorenz, M. Fromm and H.K. Weitzel (Germany, Switzerland) 348

Apolipoprotein-lipid association in oxidatively modified HDL and LDL
M.I. Shoukry, E.L. Gong and A.V. Nichols (USA) 355

Stimulation of lipoxin synthesis from leukotriene A_4 by endogenously formed 12-hydroperoxyeicosatetraenoic acid in activated human platelets
C. Edenius, S. Tornhamre and J.Å. Lindgren (Sweden) 361

Rapid Reports

Acetyl-CoA carboxylase exerts strong flux control over lipid synthesis in plants
R.A. Page, S. Okada and J.L. Harwood (UK) 369

Tocopherols and carotenes are differently distributed in subfractions of high-density lipoprotein
A.J. Brown and Y.D. Fragoso (UK) 373

Short Sequence-Paper

Structure and sequence of the *Arabidopsis thaliana* lipoxygenase 1 gene
M.A. Melan, J.L. Nemhauser and T.K. Peterman (USA) 377

Corrigendum

Acyl-binding/lipid-transfer proteins from rape seedlings, a novel category of proteins interacting with lipids (Biochim. Biophys. Acta 1170 (1993) 109–117 (BBALIP 54253))
J. Østergaard, C. Vergnolle, F. Schoentgen and J.-C. Kader (France) 381

Cumulative Contents, Vol. 1210 383

Author Index 386